Datasheet: MCA5977

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI INFECTIOUS SALMON ANEMIA VIRUS (ISAV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>Infectious Salmon Anemia Virus (ISAV)</td>
</tr>
<tr>
<td>Other names:</td>
<td>INFECTIOUS SALMON ANEMIA VIRUS</td>
</tr>
<tr>
<td>Format:</td>
<td>Con S/N</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>4A11</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.5 ml</td>
</tr>
</tbody>
</table>

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<tr>
<td>Immunofluorescence</td>
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</tbody>
</table>

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Viral

Product Form

Tissue Culture Supernatant - liquid (concentrated)

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations

IgG concentration 0.5 - 1.0 mg/ml

Immunogen

ISAV isolate

External Database Links

UniProt:

Q8V37T   Related reagents
Q8V3U0   Related reagents

Entrez Gene:
Fusion Partners

Fusion Partners

Spleen cells from immunised Balb/c mice were fused with cells of the Mouse SP2/0-Ag-14 myeloma cell line.

Specificity

Mouse anti Infectious Salmon Anemia Virus, clone 4A11, specifically recognizes the Infectious Salmon Anemia Virus, an orthomyxovirus being the sole member of the Isavirus genus. ISAV is the causative agent for Infectious Salmon Anemia (ISA), a notifiable disease affecting Atlantic salmon and resulting in high mortality (Weli, S.C., et al. 2013). ISAV is similar in structure to other orthomyxoviruses, with the exception of the hemagglutinin (HA) protein that would appear to be significantly different in size than for other influenza type viruses (Rimstad, E., et al. 2001). ISAV was first identified in farmed salmon in Norway in 1984, spread by wild marine fish species, it has since been detected in farmed Atlantic salmon stocks throughout the North Atlantic, North West America and more recently in Chile, where it has also been detected in farmed Coho salmon (Godoy, M.G., et al. 2008). Due to the high mortality of infected individuals, ISAV has a significant economic impact and infections are of serious concern to the aquaculture industry.

While the route of entry into the host, is as yet, poorly understood, evidence indicates that the virus enters through epithelial tissue in the gills (Weli, S.C., et al. 2013), this is similar to mammalian orthomyxoviruses which target respiratory tissues.

Clone 4A11 can be used to identify ISAV in the tissues of infected fish and may be of use for research into methods for diagnosis and control of ISAV infections in the aquaculture industry.

Further Reading


Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee

18 months from date of despatch.

Health And Safety Information


Regulatory

For research purposes only

Related Products

**Recommended Secondary Antibodies**

Goat Anti Mouse IgG IgA IgM (STAR87...), Goat Anti Mouse IgG (STAR77...), Goat Anti Mouse IgG (STAR12...), Rabbit Anti Mouse IgG (STAR8...), Rabbit Anti Mouse IgG (STAR9...), Goat Anti Mouse IgG (Fc) (STAR120...), Goat Anti Mouse IgG (STAR70...), Rabbit Anti Mouse IgG (STAR13...), HRP, RPE, DyLight®800, FITC, RPE, FITC, HRP, Alk. Phos., HRP, DyLight®488, DyLight®680,

**Recommended Useful Reagents**

MOUSE ANTI SALMONID Ig (MCA2182)
MOUSE ANTI RAINBOW TROUT Ig (MCA5976)
RABBIT ANTI SALMONID Ig (AHP761)

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